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Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number 1/6-3-1115
 Filing Date 11-11-91
 Applicants
 Group Art Unit 1725
 Examiner Name I. Lin
 Attorney Docket Number 311-0-4111



OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

EXAMINER INITIAL*	Cite No.	Include name of the author (in CAPITAL LETTERS); title of the article (when appropriate); title of the item (book, magazine, journal, serial, symposium, catalog, etc.); date, page(s), volume-issue number(s); publisher, city and/or country where published	T ²
J. Hx	✓	K-H BUSSE; Arc Spraying Of Corded Wires; Thermal Spraying; June 1989; 19-28	
		STEEPER et al.; A Taguchi Experimental Design Study Of Twin-Wire Electric Arc Sprayed Aluminum Coatings; Proceedings of the International Thermal Spray Conference & Exposition; May 28-June 5 1992; 427-432; Orlando, FL.	
	✓	AKIRA OHMORI; Thermal Spraying Current Status And Future Trends; Proceedings of the 14 th International Thermal Spray Conference; May 22-26 1995; 1197-1202; Kobe, Japan	
	✓	CRANE et al.; Relationships Between Process Variables, Structure And Mechanical Properties of Arc Sprayed Steel Coatings; Surface Engineering Conference; 1985; 103-118	
	✓	NEWBERY et al.; The Electric Arc Spray Manufacture of Rapid Production Tooling: A Case Study; Proceedings of the 15 th International Thermal Spray Conference; May 25-29 1998; 1223-1228; Nice, France	
	✓	ZURECKI et al.; Electric Arc Deposition of Carbon Steel Coatings with Improved Mechanical Properties; Journal of Thermal Spray Technology; December 1997; Volume 6(4); 417-421;	
	✓	HARRIS et al.; Influence of Heat Transfer on the Structure and Properties of Arc Sprayed Low Alloy Steels; Surface Engineering conference; 1985; 78-94	
	✓	FUSSELL et al.; A Sprayed Steel Tool for Permanent Mold Casting of Aluminum; SAE Technical Paper Series; April 22-26 1991; 1-7; Dayton, OH.	
	✓	VOLENIK et al.; Properties of Alloy Steel Coatings Oxidized During Plasma Spraying; Materials Science and Engineering; 1997; A234-236; 493-496	
	✓	WEISS et al.; Arc-Sprayed Steel-Faced Tooling; Journal of Thermal Spray Technology; September 1994; Volume 3(3); 275-281	
	✓	SMITH et al.; An Investigation of the Effects of Droplet Impact Angle in Thermal Spray Deposition; Proceedings of the 7 th National Thermal Spray Conference; June 20-24 1994; 603-608; Boston, MA.	
	✓	KOWALSKY et al.; Diagnostic Behavior of the Wire-Arc-Plasma Spray Process; Proceedings of the International Thermal Spray Conference & Exposition; May 28-June 5 1992; 337-342; Orlando, FL.	
	✓	MURAKAMI et al.; Effect of Temperature Rise of Sprayed Deposits of an Fe-2.19wt.%C-0.68wt.%Si Alloy During Thermal Spraying on the Structures and the Mechanical Properties; Materials Science and Engineering; 1994; A174; 85-94	
	✓	PRINZ; Shaping By Deposition; Carnegie Mellon University	
	✓	STEFFENS; Metallurgical Changes In The Arc Spraying Of Steel; British Welding Journal; October 1966; 697-605	
	✓	BREDENDICK-KAMPER et al.; AES Investigation Of Thermally Sprayed Al ₂ O ₃ Coatings On Steel; Fresenius Journal Anal Chem; 1991; 341; 346-348	

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 2 of 2

Application Number	69/683,158
Filing Date	11-27-81
Applicants	
Group Art Unit	
Examiner Name	
Attorney Docket Number	281-1454

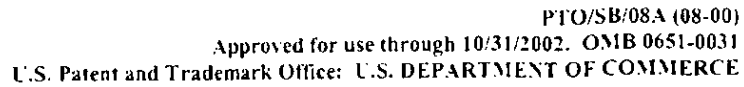
9 Jpx	✓	CRANE et al.; Relationships Between Process Variables, Structure and Mechanical Properties Of Arc Sprayed Steel Coatings; First International Conference On Surface Engineering; June 25-28 1985; 103-118; Brighton, UK	
	✓	KIM et al.; Heat Flow In Multi-Pass Arc Spraying Process; Surface And Coatings Technology; 1989; 398-408;	
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	✓	FUSSELL et al.; Controlled Microstructure Of Arc Sprayed Metal Shells; Carnegie Mellon University; May 1991; 1-26	
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	✓	HE et al.; Net Shape Simulation And Control; Proceedings Of The 7 th National Thermal Spray Conference; June 20-24 1994; 415-419; Boston, MA	
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	✓	GREVING et al.; Effects Of Coating Thickness And Residual Stresses On Bond Strength Of C633-79 Thermal Spray Coating Test Specimens; Proceedings of the 7 th National Thermal Spray Conference; June 20-24 1994; 639-644; Boston, MA	
	✓	KNIGHT et al.; Residual Stresses In Thermally Sprayed Coatings; Proceedings of the 1993 National Thermal Spray Conference; June 7-11 1993; 607612; Anaheim, CA	
	✓	NEISER et al.; Use Of A Computer Model To Assist In VPS Parameter Development; Proceedings of the 1993 National Thermal Spray Conference; June 7-11 1993; 61-66; Anaheim, CA	
✓	✓	EINERSON et al.; Intelligent Control Strategies For The Plasma Spray Process; Proceedings of the 1993 National Thermal Spray Conference; June 7-11 1993; 205-211; Anaheim, CA	

EXAMINER

DATE CONSIDERED

Examiner. Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(Use several sheets if necessary)

Sheet 1 of 2

Atty. Docket No.
201-0454DP

Serial No.
09-683,158

First Named Inventor:
Allen ROCHE

Filing Date
11 27 2001

Group	Unassigned
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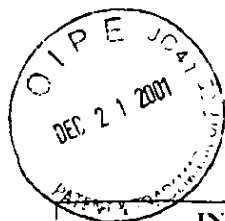
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Sheet 1 of 2

Atty. Docket No.
201-0454DP

Serial No.
09/683,158

First Named Inventor:
Allen ROCHE

Filing Date
11/27/2001

Group
Unassigned

OTHER PRIOR ART - NON-PATENT LITERATURE DOCUMENTS

Examiner Initial	Cite No.	Include name of the author, title of the article, title of the item, date, page(s), volume-issue number(s), publisher, city and/or country where published
<i>J. f. K</i>	C1	Sprayform Tools and Dies Limited (STD), Video Transcript, publication date at least as early as 01 Sept. 2000.
<i>↑</i>	C2	RADIP TOOLING - Changing the Face of Manufacturing, Compact Disc Digital Data, dated 12 October 2000, trt: 10:50.
<i>↑</i>	C3	MERLE L. THORPE; and JOSEPH W. MINGE, SPRAY METAL COMPOSITE TOOLING, 26 th Annual National SAMPE (Society For The Advancement Of Material And Process Engineering) Symposium And Exhibition, April 28-30, 1981, Pages 374-382, Figures 1-13 and Table I and II.
<i>↑</i>	C4	Co-pending United States Patent Application No. 09/683,160 entitled "Method And Arrangement For Implementing Heat Treatment During The Execution Of Sprayform <i>Inv: ROCHE,</i> Techniques" and filed 11/27/2001.
<i>↓</i>	C5	Co-pending United States Patent Application No. 09/683,157 entitled "Method And Arrangement For Implementing Heat Treatment After The Execution Of Sprayform <i>Inv: ALLOR,</i> Techniques" and filed 11/27/2001.

EXAMINER

J. f. K

DATE CONSIDERED

12/24/03

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